Developing Performance Indicators for Recreational Boating and Related Tourism

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Recreational Boating and Related Tourism TWG Four Areas of Work

Marinas / Launch Ramps

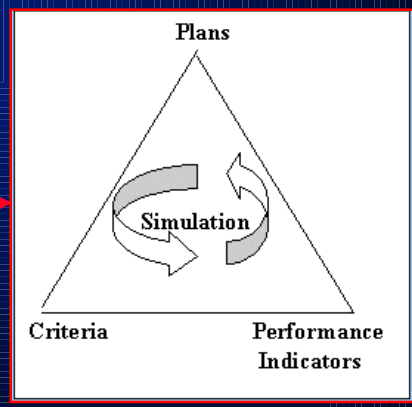
Boaters

Charterboats

Water Level-Impact Analysis

Economic Advisors

PFEG/SVI



STANDARDS AND GUIDELINES FOR CONDUCTING ECONOMIC ANALYSES

Need for Consistency in:

- Terminology – benefits, costs, damages, impacts, mitigation, etc.
- Application of analytical tools
- How flows of benefits and costs over time are treated
- The use of units of time and how they are aggregated

STANDARDS AND GUIDELINES FOR CONDUCTING ECONOMIC ANALYSES

Need for Consistency in:

- How geographies are defined
- Thresholds of significance are formulated
- How areas of risk and uncertainty are treated.

METEOROLOGICAL

Marina Inventory and Survey

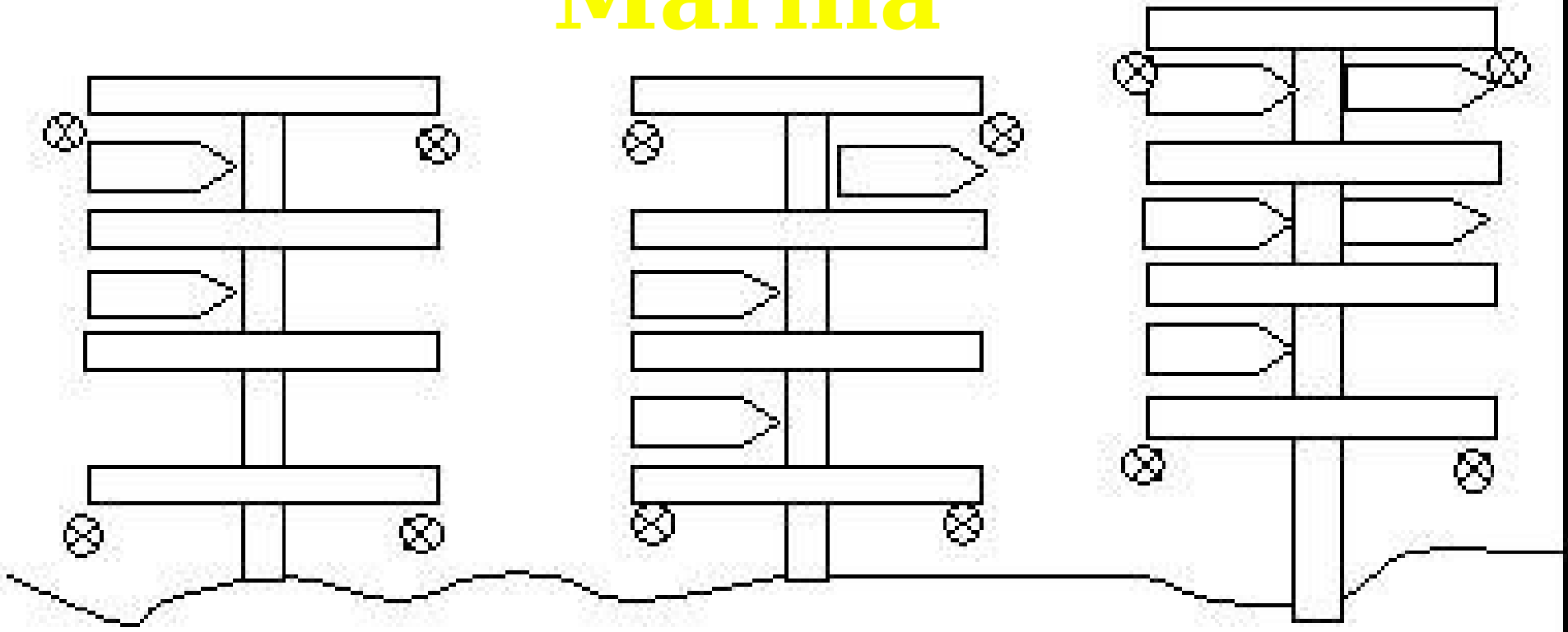
Objectives:

1. Assess economic impact of changing lake levels on marina operations
2. Update inventory of marinas and yacht clubs
3. Obtain bathymetry at marina slips/berths

Approach

- Prenotice letter, phone contact
- Personal interview
- Depth measurements
- GPS reading

Depths Taken at Each Marina



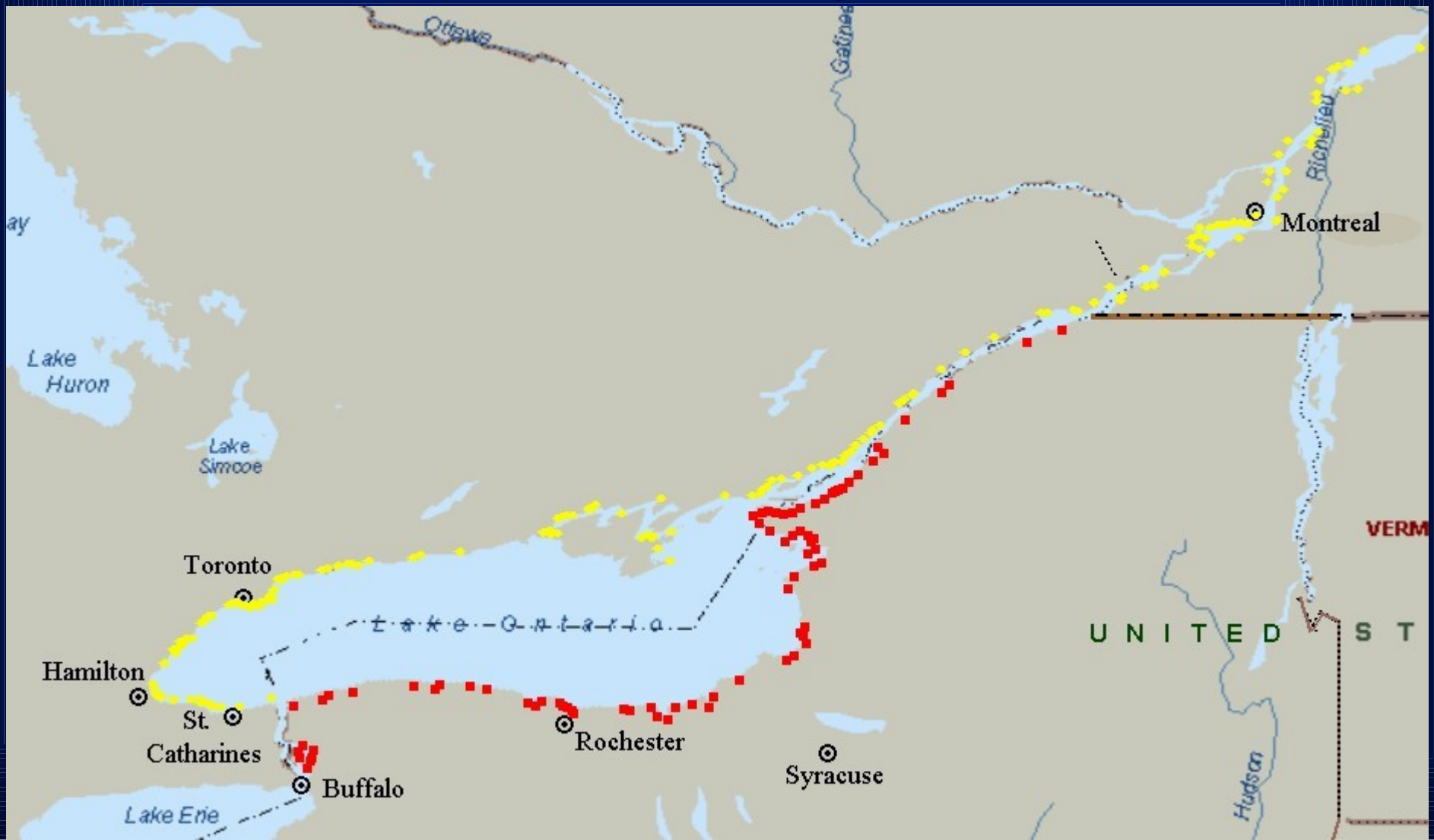
⊗ Sample Depth Measurements

Location: (Nearest Gage)
Date:
Time: (Nearest hour)

Results

- 168 marinas & yacht clubs in operation
- Interviewed 159 (95%)
- Mean size = 76 berths,
- Over 10,000 seasonal slips and moorings
- Over 1,300 transient slips

Marina Locations Studied by Recreational Boating and Tourism



Boater Survey

Purpose: To assess the economic impact of changing lake levels on recreational boaters and boating-related tourism businesses

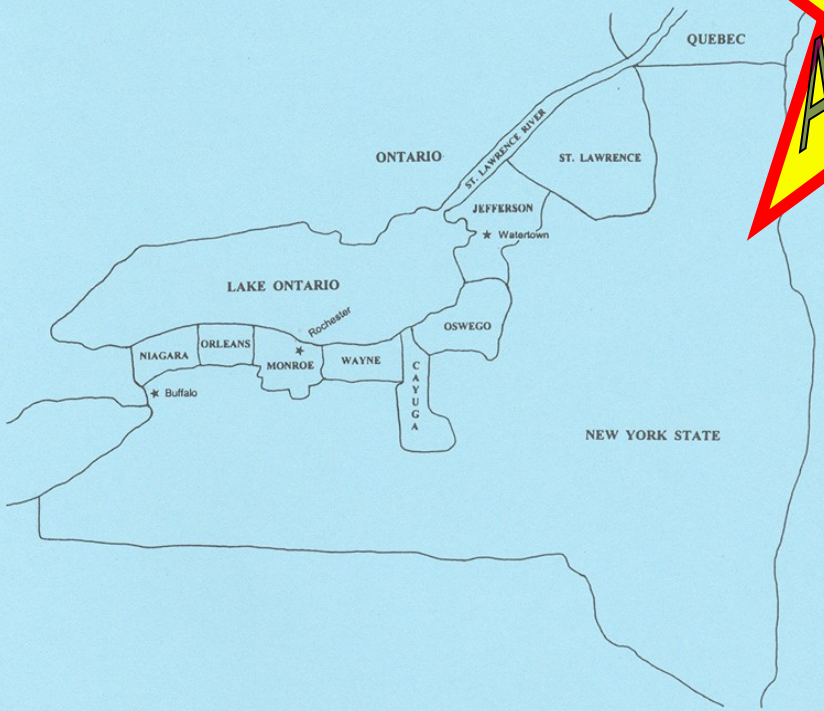
Approach

- Two stage survey approach
  - screening phone interview
  - follow-up mail questionnaire
- Registered New York boaters
  - County of principal use
  - Stratified by region and boat length

Lake Ontario and St. Lawrence River

Boater Survey – 2002

OMB Approved



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Questionnaire Topics

- Boating use
- Expenditures in various business sectors
- Days lost, adaptations made
- Willingness to Pay
- Attitudes / Opinions

Boater Survey Results

Boat Type	Boat Length	Marina Location	Typical Expenditures per day per group	WTP above current expenditures	days/year
Power & Sail	<16	All	$105	$65	23
Power	16-25	West	$185	$70	38
Power	16-25	Central	$162	$84	28
Power	16-25	East	$233	$67	35
Power	26-39	West	$156	$90	44
Power	26-39	Central	$245	$88	39
Power	26-39	East	$216	$91	43
Power	>=40	All	$106	$72	47
Sail	16-25	West	$125	$70	54
Sail	16-25	Central	$110	$84	40
Sail	16-25	East	$158	$67	50
Sail	26-39	West	$106	$90	63
Sail	26-39	Central	$166	$88	55
Sail	26-39	East	$146	$91	61
Sail	>=40	All	$72	$72	66

Boater Survey Summary

Usage

	% Usage by Month
april	5.1
may	10.8
june	17.9
july	23.9
august	23.8
september	13.2
october	4.5
november	0.8

Charterboat Operators

Purpose: To assess economic impact of changing lake levels on charterboat operators

Approach

- Independent NYS Sea Grant survey conducted
- We were allowed to add water-level related question to existing survey for Lake Ontario / SLR respondents
- Impacts based on net income lost

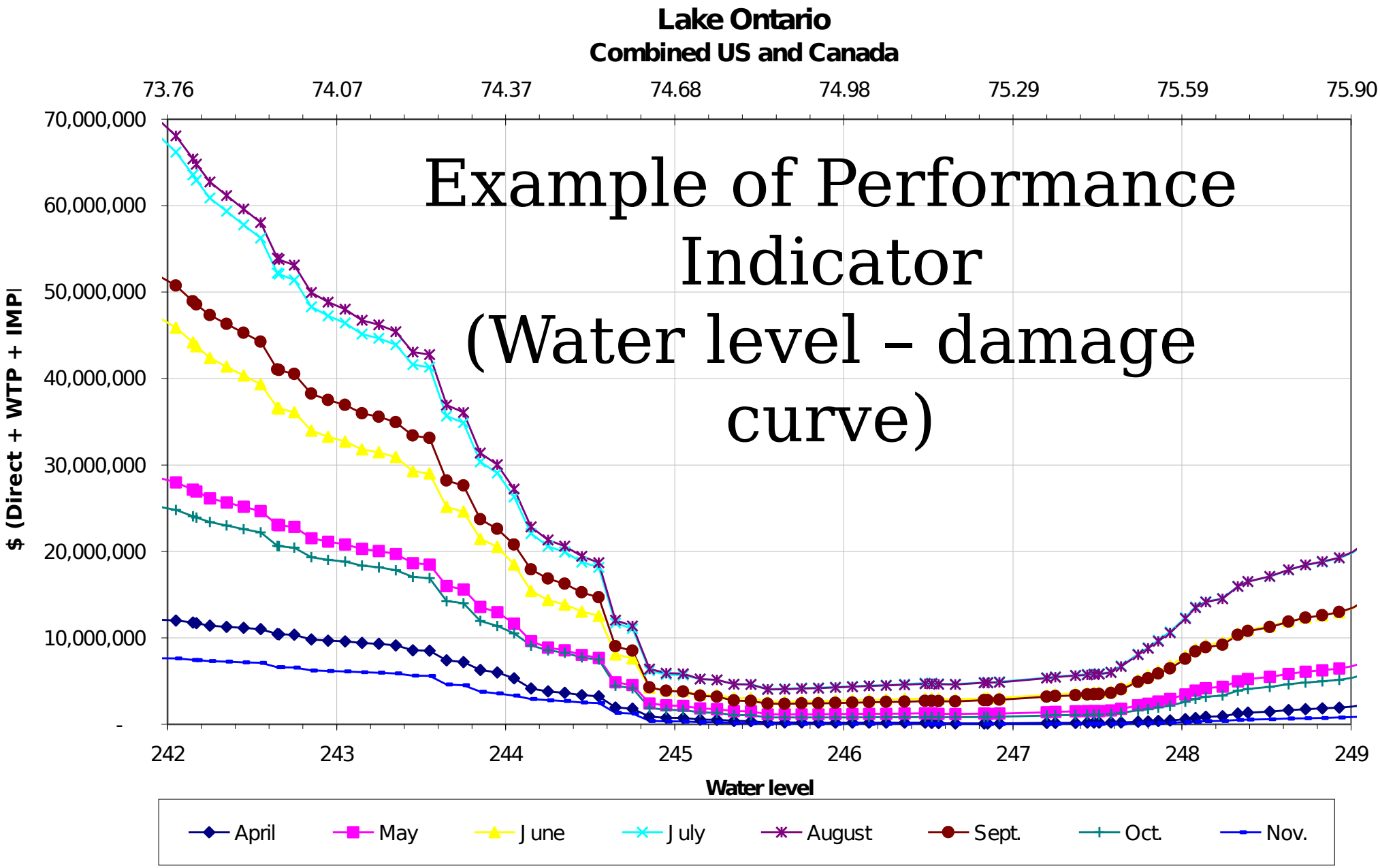
Water Level-Impact Analysis

- Define Performance Indicators
  Develop at Boater Point of Entry
- Aggregate Across Reach
- Aggregate Across Point of Entry
- Aggregate US & Canada

Example Outputs

For a given water level and month during the boating season:

1. Loss of slips and economic loss to marinas & yacht clubs
2. Direct and indirect losses to local/regional economy
3. Net value loss to boaters based on WTP data


Lake Ontario
Combined US and Canada
73.76
74.07
74.37
74.68
74.98
75.29
75.59
75.90
70,000,000
60,000,000
50,000,000
40,000,000
30,000,000
20,000,000
10,000,000
-
$ (Direct + WTP + IMP)
Example of Performance Indicator (Water level – damage curve)
242
243
244
245
246
247
248
249
Water level
April
May
June
July
August
Sept.
Oct.
Nov.